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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,534	08/26/2003	Anthony Dip	240579US6YA	2715
22850	7590 09/28/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET			· MALDONADO, JULIO J	
	IA, VA 22314	ART UNIT	PAPER NUMBER	
,			2823	
			DATE MAILED: 09/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summany	10/647,534	DIP ET AL.					
Office Action Summary	Examiner	Art Unit					
	Julio J. Maldonado	2823					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on	1) Responsive to communication(s) filed on						
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.							
4a) Of the above daim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)☐ Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.	7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-16</u> are subject to restriction and/or e	lection requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
•							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) Notice of Informal Pa	atent Application (PTO-152)					
Paper No(s)/Mail Date 6) Uther:							

Application/Control Number: 10/647,534 Page 2

Art Unit: 2823

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-12, drawn to a method of manufacturing a semiconductor device, classified in class 438, subclass 694.
 - II. Claim 13, drawn to a semiconductor device, classified in class 257, subclass 1+.
 - III. Claims 14-16, drawn to a semiconductor manufacturing apparatus, classified in class 118, subclass 620.
- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process that includes growing a third oxide layer on the surface of the substrate; and etching away said third oxide layer.
- 3. Inventions I and III are related as process and apparatus for its practice. The inventions are distinct if it can be shown that either: (1) the process as claimed can be practiced by another materially different apparatus or by hand, or (2) the apparatus as claimed can be used to practice another and materially different process. (MPEP § 806.05(e)). In this case the apparatus as claimed can be used to practice another and

Application/Control Number: 10/647,534 Page 3

Art Unit: 2823

materially different process such as a method of forming and patterning, for example, a gate oxide layer. Furthermore, the process as claimed can be practiced by another materially different apparatus such as an apparatus consisting of a single chamber used to performing the growing oxide step and the etching away step.

- 4. Inventions II and III are related as apparatus and product made. The inventions in this relationship are distinct if either or both of the following can be shown: (1) that the apparatus as claimed is not an obvious apparatus for making the product and the apparatus can be used for making a different product or (2) that the product as claimed can be made by another and materially different apparatus (MPEP § 806.05(g)). In this case the apparatus as claimed can be practiced by another materially different apparatus such as an apparatus consisting of a single chamber.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.
- 7. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group III, restriction for examination purposes as indicated is proper.

Application/Control Number: 10/647,534 Page 4

Art Unit: 2823

8. Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group III, restriction for examination

purposes as indicated is proper.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to examiner Julio J. Maldonado whose telephone number

is (571) 272-1864. The examiner can normally be reached on Monday through Friday.

10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax number for this

group is 703-872-9306 for before final submissions, 703-872-9306 for after final

submissions and the customer service number for group 2800 is (703) 306-3329.

Updates can be found at http://www.uspto.gov/web/info/2800.htm.

Julio J. Maldonado Patent Examiner Art Unit 2823

Julio J. Maldonado September 20, 2004

Primary Examiner